

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1, 5-9, 13-22 (Previously canceled).

<sup>1</sup>  
Claim ~~2~~ (currently amended). A purified or isolated nucleic acid encoding a secreted soluble calcium channel subunit polypeptide that binds gabapentin said nucleic acid comprising a polynucleotide ~~having at least 90% identity with the sequence encoding:~~

- from amino-acid 1 to between amino-acids 1027 and 1062 of SEQ ID NO:20 ~~SEQ ID N°20~~, or

- from amino-acid 1 to between amino-acids 984 and 1019 of SEQ ID NO:22 ~~SEQ ID N°22~~.

<sup>2</sup>  
Claim ~~3~~ (currently amended). A purified or isolated nucleic acid encoding a secreted soluble calcium channel subunit polypeptide that binds gabapentin wherein the sequence of said nucleic acid ~~is at least 90% identical with the sequence encoding~~ encodes:

<sup>D37</sup>  
- from amino-acid 1 to between amino-acids 1047 and 1062 of SEQ ID NO:20 ~~SEQ ID N°20~~, or

- from amino-acid 1 to between amino-acids 1004 and 1019 of SEQ ID NO:22 ~~SEQ ID N°22~~.

<sup>3</sup>  
Claim ~~4~~ (currently amended). A purified or isolated nucleotide sequence encoding a secreted soluble calcium channel subunit polypeptide wherein said sequence is the sequence of SEQ ID NO:1, SEQ ID N°1, SEQ ID NO:2, SEQ ID N°2, SEQ ID NO:3, SEQ ID N°3, SEQ ID NO:7, SEQ ID N°7, SEQ ID NO:8, SEQ ID N°8, SEQ ID NO:9, SEQ ID N°9, SEQ ID NO:13, SEQ ID N°13, SEQ ID NO:14, SEQ ID N°14, or SEQ ID NO:15 ~~SEQ ID N°15~~.

<sup>4</sup>  
Claim ~~10~~ (previously amended). A recombinant vector comprising a nucleic acid according to claim ~~2~~.

<sup>5</sup>  
Claim ~~11~~ (previously amended). A recombinant host cell comprising a nucleic acid according to claim ~~2~~.

<sup>6</sup>  
Claim ~~12~~ (previously amended). A method for producing a secreted soluble calcium channel subunit polypeptide, said method comprises the steps of:

- (a) inserting the nucleic acid according to claim ~~2~~ in an appropriate vector;
- (b) culturing, in an appropriate culture medium, a host cell previously transformed or transfected with the recombinant vector of step (a);
- (c) harvesting the culture medium thus obtained or lyse the host cell, for example by sonication or osmotic shock;
- (d) separating or purifying, from said culture medium, or from the pellet of the resultant host cell lysate, the thus produced calcium channel subunit polypeptide of interest.

D<sup>37</sup>  
Claim 23 (cancelled).

Claim 24 (cancelled).

<sup>7</sup>  
Claim ~~25~~ (previously added). The nucleic acid of claim ~~2~~ further comprising a nucleotide sequence encoding a tag.

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